APPENDIX IV

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)						
	0701	0702	0703	0801	0802		
Bare Rock/Sand/Clay	4	4	52	7	15		
Deciduous Forest	19,656	13,098	20,936	16,349	23,667		
Developed Open Space	758	316	2,539	635	806		
Emergent Herbaceous Wetlands							
Evergreen Forest	1,852	1,192	1,892	1,414	3,138		
Grassland/Herbaceous	103	96	751	135	141		
High Intensity Development							
Low Intensity Development	38	1	286	2	4		
Medium Intensity Development			9				
Mixed Forest	1,501	964	1,290	689	1,445		
Open Water	312		344	0			
Pasture/Hay	1,102	214	15,158	1,459	1,306		
Row Crops	67	4	408	46	53		
Shrub/Scrub	298	136	453	95	285		
Woody Wetlands	131		180	8	10		
Total	25,822	16,025	44,298	20,839	30,870		

Table A4-1. Land Use Distribution in the Hatchie River Watershed by HUC-12. Data are from 1992 Multi-Resolution Land Characterization (MRLC) derived by applying a generalized Anderson Level II system to mosaics of Landsat thematic mapper images collected every five years.

HYDROLOGIC SOIL GROUPS

GROUP A SOILS have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.

GROUP B SOILS have moderate infiltration rates when wet and consist chiefly of soils that are moderately deep to deep, moderately to well drained, and moderately coarse to coarse textures.

GROUP C SOILS have low infiltration rates when wet and consist chiefly of soils having a layer that impedes downward movement of water with moderately fine to fine texture.

GROUP D SOILS have high runoff potential, very low infiltration rates, and consist chiefly of clay soils.

Table A4-2. Hydrologic Soil Groups in Tennessee as Described in WCS. Soils are grouped into four hydrologic soil groups that describe a soil's permeability and, therefore, its susceptibility to runoff.

STATION	LOCATION	HUC 12	Area	1Q10	7Q10	3Q20
03455000	French Broad River	060101050703	1,858.00	476.3140	532.7300	427.5850

Table A4-3. United States Geological Survey Continuous Record Gaging Stations in the Upper French Broad River Watershed. Additional information may be found at: http://water.usgs.gov/osw/streamstats/

AGENCY	STATION	LOCATION	HUC 12
TDEC	1340	French Broad River	060101050701
TDEC	1350	French Broad River	060101050701
USFS	40201	Brushy Creek	060101050701
USFS	40202	Brushy Creek	060101050701
USFS	40203	Brushy Creek	060101050701
USFS	40204	Brushy Creek	060101050701
USFS	40205	Moneyham Creek	060101050701
USFS	40206	Moneyham Creek	060101050701
USFS	40207	Moneyham Creek	060101050701
USFS	40208	Moneyham Creek	060101050701
USFS	40209	Moneyham Creek	060101050701
USFS	40210	Moneyham Creek	060101050701
USFS	40211	Moneyham Creek	060101050701
USFS	40212	Brushy Creek	060101050701
USFS	40213	Brushy Creek	060101050701
USFS	40214	Brushy Creek	060101050701
TVA	475975	French Broad River	060101050701
TDEC	1355	French Broad River @ RM 84.0	060101050703
USEPA	471005	French Broad River	060101050703
TVA	475086	French Broad River @ RM 77.5	060101050703
TVA	476014	French Broad River @ RM 82.1	060101050703
TVA	477478	French Broad River @ RM 78.0	060101050703
TDEC	CLEAR001.2CO	Clear Creek	060101050703
TDEC	BAKER000.1CO	Baker Branch @ RM 0.1	060101050801
EPA			
Environmental	0.4.0=0.4.1	0 11 5 1 5 1 5 1	
Resource Lab	2A07801L	Gulf Fork Big Creek	060101050802
EPA Environmental			
Resource Lab	2A07801U	Gulf Fork Big Creek	060101050802
. 100001100 Edb	2,10,70010	Gulf Fork of Big Creek	333131000002
TDEC	GFBIG002.9CO	@ RM .02	060101050802
TDEC	GRASS000.2CO	Grassy Fork @ RM 0.2	060101050802

Table A4-4. STORET Water Quality Monitoring Stations in the Upper French Broad River Watershed. EPA, Environmental Protection Angency; TDEC, Tennessee Department of Environment and Conservation; TVA, Tennessee Valley Authority; USFS, United States Forest Service.

DRAFT

PERMIT	COLINITY	DECODIDEION	WATERDORY	11110 40
NUMBER	COUNTY	DESCRIPTION	WATERBODY	HUC-12
ND0000 040	Cooks	I Hillita I Lina Crangings	Long Creek and UT to	000404050704
NR0603.012	Cocke	Utility Line Crossings	French Broad River	060101050701
NRS05.324	Cocke	Surveying and Geotechnical Exploration	French Broad River	060101050701
NK303.324	COCKE	Exploration	French Bload River	000101030701
NRS02.445	Greene	Road Repair	Paint Creek	060101050702
		Construction and Removal of		
NR0603.154	Cocke	Minor Road Crossings	Not Identified	060101050703
NRS04.447	Cocke	Small Structure Replacement	Clear Creek South Fork	060101050703
NRS04.447B	Cocke	Small Structure Replacement	Clear Creek North Fork	060101050703
NRS04.447C	Cocke	Small Structure Replacement	Oven Creek	060101050703
			French Broad River, Clear	
NRS05.423	Cocke	Minor Alterations to Wetlands	Creek, and Ground Water	060101050703
		Construction and Removal of		
NRS05.423B	Cocke	Minor Road Crossings	Clear Creek	060101050703
NRS05.423C	Cocke	Minor Alterations to Wetlands	Ground Water	060101050703
NRS06.016	Cocke	Construction of Outfall Structures	French Broad River	060101050703
11110001010	Coons	Construction and Removal of	Tronon Broad (Wo)	000101000100
NRS06.131	Cocke	Minor Road Crossings	French Broad River	060101050703
NRS05.369	Cocke	Bank Stabilization	Not Identified	060101060801
		Construction and Removal of		
NR0603.051	Cocke	Minor Road Crossings	Gulf Fork Big Creek	060101060802
NRS02.332	Cocke	Bridges and Approaches	Gulf Fork Big Creek	060101060802
NRS02.332B	Cocke	Bridges and Approaches	Gulf Fork Big Creek	060101060802
NRS02.332C	Cocke	Bridges and Approaches	Gulf Fork Big Creek	060101060802
NRS02.332D	Cocke	Bridges and Approaches	Gulf Fork Big Creek	060101060802
		Construction and Removal of		
NRS04.296	Cocke	Minor Road Crossings	Gulf Fork Creek	060101060802
		Construction and Removal of		
NRS04.296B	Cocke	Minor Road Crossings	Gulf Fork Creek	060101060802
		Construction and Removal of		
NRS04.296C	Cocke	Minor Road Crossings	Gulf Fork Creek	060101060802
NIDOOF OF		Construction and Removal of	0 1/5 1 5: 0	0004040000
NRS05.274	Cocke	Minor Road Crossings	Gulf Fork Big Creek	060101060802
NDCOC 044	Cooks	Construction and Removal of	Cult Fork Big Creek	060404060000
NRS06.044	Cocke	Minor Road Crossings	Gulf Fork Big Creek	060101060802

Table 4-5. ARAPs (Aquatic Resource Alteration Permit) issued June 2002 through June 2007 in the Tennessee Portion of the Upper French Broad River Watershed. UT, Unnamed Tributaries.

DRAFT

PERMIT		PERMITEE:			
NUMBER	COUNTY	DISCRIPTION	AREA	WATERDODY	HUC-12
		Cooke County Hwy Dept:		Clear Creek &	
TNR132157	Cocke	Widening of County Road	0.40	Oven Creek	060101050703
		TDOT: SR 160 Road Maintenance and		UT to French Broad River	
TNR190343	Cocke	Replace Small Structures	1.44	@ RM 76	060101050703
TNR190447	Cocke	TDOT: Trenton Hollow Road	2.00	Clear Creek	060101050703
TNR190485	Cocke	TDOT: Hwy 35	155.70	Clear Creek	060101050703
TNR190515	Cocke	TDOT: SR-35/SR-340, Replace Drainage Structures	4.91	North Fork of Clear Creek & South Fork of Clear Creek	060101050703
TNR190573	Cocke	TDOT: SR-35 New Alignment	262.00	Clear Creek & French Broad River	060101050703
TNR190702	Cocke	TDOT: Replace Bridge	15.00	French Broad River	060101050703
TNR131757	Cocke	Landstar Development, LLC: Cherokee Falls	181.00	Raven's Branch and UT to Raven's Branch	060101050802
TNR132221	Cocke	John B. Holloway & Don Norwood: Big Creek Bend	5.00	Gulf Fork Big Creek	060101050802
TNR190317	Cocke	TDOT: Bridge and Approaches over Gulf Fork Big Creek	5.86	Gulf Fork Big Creek, Trail Branch Big Creek, French Broad River	060101050802
TNR190546	Cocke	TDOT: Replace Bridge over Gulf Fork Big Creek	1.20	Gulf Fork Big Creek	060101050802

Table4-6. CGPs (Construction General Permit) issued May 2002 through June 2007 in the Tennessee Portion of the Upper French Broad River Watershed. Area, acres of property associated with construction activity; UT, Unnamed Tributaries.

PERMIT NUMBER	FACILITY NAME	SIC	SIC NAME	MADI	WATERBODY	HUC-12
	Parrottsville				Clear Creek	
TN0054861	Elementary School	4952	Sewerage Systems	Minor	@ RM 6.4	060101050703
					Clear Creek	
TN0067318	Parrottsville STP	4952	Sewerage Systems	Minor	@ RM 6.0	060101050703

Table 4-7. Municipal and Industrial Permittees in the Tennessee Portion of the Upper French Broad River Watershed. SIC, Standard Industrial Classification; MADI, Major Discharge Indicator.

DRAFT

PERMIT NUMBER	FACILITY NAME	SECTOR	AREA	WATERBODY	HUC-12
TND052442	TRANSFLO Terminal Services, Inc.	D	2.00	Tannasaa Diyar	000404050704
TNR053442	(Knoxville)	Р	3.00	Tennessee River	060101050701
TNR054013	Del Rio Wood Yard	Α	1.00	French Broad River	060101050701
TNR054476	Morris Coupling Company, Inc.	AA	21.46	French Broad River	060101050701
TNR054513	Fleming Machine & Welding, Inc	AB	1.00	Metropolitan Storm Sewer	060101050701
TNR053078	Smurfit Stone Container Enterprises	В	2.60	Unnamed Stream	060101050703
TNR053505	Flura Corporation	C,L,P,K	30.00	French Broad River	060101050703
				UT to	
TNR054236	Hearthstone, Inc.	Α	10.00	French Broad River	060101050703

Table 4-8. Permitted TMSP (Tennessee Multi-Sector Permit) facilities in the Tennessee Portion of the Upper French Broad River Watershed. Area, acres of property associated with industrial activity; UT, Unnamed Tributaries. Sector details found in Table 4-9.

SECTOR	TMSP SECTOR NAME
Α	Timber Products Facilities
	Facilities That Manufacture Metal Products including Jewelry, Silverware
AA	and Plated Ware
	Facilities That Manufacture Transportation Equipment, Industrial
AB	or Commercial Machinery
	Facilities That Manufacture Electronic and Electrical Equipment and Components,
AC	Photographic and Optical Goods
AD	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Required)
AE	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Not Required)
В	Paper and Allied Products Manufacturing Facilities
С	Chemical and Allied Products Manufacturing Facilities
D	Asphalt Paving, Roofing Materials, and Lubricant Manufacturing Facilities
E	Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing Facilities
F	Primary Metals Facilities
G	Metal Mines (Ore Mining and Dressing) (RESERVED)
Н	Inactive Coal Mines and Inactive Coal Mining-Related Facilities
I	Oil or Gas Extraction Facilities
	Construction Sand and Gravel Mining and Processing and Dimension Stone Mining
J	and Quarrying Facilities
K	Hazardous Waste Treatment Storage or Disposal Facilities
L	Landfills and Land Application Sites
M	Automobile Salvage Yards
N	Scrap Recycling and Waste and Recycling Facilities
0	Steam Electric Power Generating Facilities
	Vehicle Maintenance or Equipment Cleaning areas at Motor Freight Transportation
	Facilities, Passenger Transportation Facilities, Petroleum Bulk Oil Stations and
Р	Terminals, the United States Postal Service, or Railroad Transportation Facilities
	Vehicle Maintenance Areas and Equipment Cleaning Areas of
Q	Water Transportation Facilities
R	Ship or Boat Building and Repair Yards
	Vehicle Maintenance Areas, Equipment Cleaning Areas or From Airport Deicing
S	Operations located at Air Transportation Facilities
Т	Wastewater Treatment Works
U	Food and Kindred Products Facilities
V	Textile Mills, Apparel and other Fabric Product Manufacturing Facilities
W	Furniture and Fixture Manufacturing Facilities
X	Printing and Platemaking Facilities
Y	Rubber and Miscellaneous Plastic Product Manufacturing Facilities
Z	Leather Tanning and Finishing Facilities

Table A4-9. TMSP Sectors and Descriptions.